

DEVAL L. PATRICK GOVERNOR TIMOTHY P. MURRAY LIEUTENANT GOVERNOR JUDYANN BIGBY, MD

SECRETARY

JOHN AUERBACH
COMMISSIONER

The Commonwealth of Massachusetts

Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

01/24/2012

Larry Bates
Assistant District Attorney, Suffolk County

Dear ADA Bates,

Enclosed is the information you requested in regards to Commonwealth vs. are copies of the following:

Included

- 1. Curriculum Vitae for Annie Dookhan and Daniel Renczkowski.
- 2. Drug Analysis Laboratory Receipt.
- 3. Control Cards with analytical results for samples #

- 4. Analysis sheets with custodial chemist's hand notations and test results.
- 5. GC/Mass Spectral analytical data for samples #

Ann Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Daniel Renezkowski was analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Annie Dookhan

Chemist

Sincerely,

Drug Analysis Lab

Jamaica Plain, MA. 02130

(617) 983-6622

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry

University of Massachusetts, Boston, Ma, Bachelor of Science

Major: Biochemistry Minor: Economics

Experience:

2003 - present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- *Writing of the Standard Operating Procedures (SOPs) and Protocols.
- *Responsible for the Quality Control and Quality Assurance of analytical instruments, reagents and controls/standards.
- *Maintenance and repairs of analytical instruments.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Qualified as an expert witness in Massachusetts Courts and U.S. District Court.
- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health.
- *Notary Public.

2001 - 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the MBL Quality Control and Quality Assurance Department for the Food and Drug Administration.
- *Method Development for creating new techniques for the QC Dept. and FDA.
- *Writing, revising and reviewing the Standard Operating Procedures (SOPs).
- *Trained and supervised new chemists and interns for the department.
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Courses:

Department of Justice - Forensics Professionals

Introduction to Forensic Drug Chemistry

Chemical Spot Test and Mechanism for Illicit Drugs

Forensic Mass Spectrometry

Forensic Science 101: An Introduction

Fundamentals of Forensic Questioned Documents

Perspectives in Expert Testimony

Evidence Analysis

Ethics in Forensic Science

Transition to Leadership

Fundamentals of Forensic Toxicology

Additional Trainings:

Good Laboratory Practice/Good Manufacturing Practice (GLP/GMP) training with Massachusetts Biologic Laboratory.

Quality Control/Quality Assurance (QC/QA) training according to FDA Codes and Regulations.

Gas Chromatography (GC) and Gas Chromatography/Mass Spectrometry (GC/MS) trainings with Agilent Technologies and Restek.

High Power Liquid Chromatography (HPLC) and HPLC/MS/MS trainings with Waters Cooperation.

Fourier Transform Infrared Spectroscopy (FTIR) training with Spectros and Spectum One.

Ultraviolet-Visible Spectroscopy (UV-Vis) training with Agilent Technologies and Beckman.

Total Organic Carbon Analyzer (TOC) training with MBL and Sievers.

Associations:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Daniel Renczkowski

Education

Degree:

Bachelors of Science in Forensic Chemistry,

May 2005 from Buffalo State College

GPA: 3.84, Dean's List, Honor's Recognition American Chemical Society Undergraduate Award

Phi Lambda Upsilon Membership

Related Coursework: Analytical Chemistry

Organic Chemistry I and II

Biochemistry

Chemistry of Criminalistics

Anatomy

Physical Chemistry

Instrumental Chemistry. Forensics Laboratory

Physical Evidence

Physiology

Employment

Massachusetts Department of Public Health Drug Analysis Laboratory Chemist I (October 2005 – March 2008)

Chemist II (March 2008 – present)

- -Successfully completed an eight week training course in the analysis of drugs conducted by senior staff
- -Successfully completed GC/MS training program
- -Responsible for the identification of substances to determine violation of the Controlled Substances Act of the Massachusetts General Laws
- -Responsible for maintenance and repairs of analytical instruments
- -Responsible for quality control of analytical instruments and standards

Related Experience

Niagara County Forensics Laboratory

Forensic Internship, January 2005

- -Conducted research on the presumptive testing of saliva
- -Conducted research on the identification and detection of lubricants
- -Observed all aspects of the laboratory including drug analysis, firearms comparison, trace evidence, arson investigation, toxicology, and serology
- -Daily use of FTIR microscope and DuraSamplerII
- -Familiarized with GC/MS programs

DRUG RECEIPT District/Unit Bastan Palice	CC #BOOK #		
Name & Rank of Arresting Officerらう ソルバ	HAMES	1D# BC1-1-4	143
DEFENDANT'S NAME	ADDRESS	CITY	STATE
		Durchoter	MA
DESCRIPTION OF ITEMS SUBMITTED	GROSS QUANTITY	LAB US GROSS WEIGHT	E ONLY ANALYSIS NUMBER
Johnstone & MG Clanazepan Clanazepan Class A Heroin Class & Cocaine	1 p:11 1 p:11 1 p:11 5 pills 2 pills 2 pills 2 sin bays 2 sin bays	3.43 3.56 3.84 3.00 3.33 3.33	
To be completed by ECU personnel only	γ)		

Received by _

Name and Rank of Submitting Officer __

Date ____

ECU Control # ____

11.00 7.01.1, 200. 5-23-11 20.00 0000000 010000 10000 - Cloncaeron litar Parkily wears New Min WTests, (ASD 2.202 STCO6. Desilim Horasegom Clonazepam 2000 5-20-11 04/27/2011 No. Analyzod. 11.300 Net Wir 6.93 OAI .cocci DDJR Buprenorphine Buprenorphine Deganoe 197450 Date Res's: 04/27/2011 The Analysica. 2,040 325 35. Chicas Will 1200 to: 1450 . DOTR This Clonaregon Time Clonarepam

DRUG POWDER ANALYSIS FORM

SAMPLE# AGENCY &	OBJON . ANALYST ADD
No. of samples tested:	Evidence Wt.
PHYSICAL DESCRIPTION:	Gross Wt():
1 you've much to set	Gross Wt ():
17.66	Pkg. Wt:
	Net Wt: _ O・\3\つ
(mylon)	
105el -210142epm	
PRELIMINARY TESTS Spot Tests	Microcrystalline Tests
Cobalt Thiocyanate ()	Gold Chloride
Marquis	TLTA ()
Froehde's	OTHER TESTS
Mecke's	Musnouse AID
· • • • • • • • • • • • • • • • • • • •	MORAL HIE
· · · · · · · · · · · · · · · · · · ·	
PRELIMINARY TEST RESULTS	GC/MS CONFIRMATORY TEST
RESULTS Lorge pom	RESULTS lorgregon.
DATE S-1-(-V)	MS D3 C
	DATE 5-23-11

Drug Information

DRUG NAME: LORAZEPAM

INGREDIENTS: LORAZEPAM -- 1 MG

Color: White to Off-White, white

Shape: Circle

Imprint: MYLAN 457 The tablet is debossed with MYLAN above the score and 457 below the score on one side.

Form: Oral Tablet

Available-Container-Size: Bottle of 1000, Dispenser Pack of 300, Strip of 300, Bottle of 100, Strip of 100, Strip of

1, Bottle of 500, Strip of 25

AAPCC Code: 007000 -

Benzodiazepines

NDC: 51079-386-19 0378-2457-01 0378-2457-10 0378-0457-10 51079-386-24 51079-386-56 0378-0457-01 51079-386-20 51079-386-01 0378-2457-05 51079-386-21 0378-0457-05

Excipients: Sodium Stearyl

Fumarate ; Lactose

(Monohydrate); Cellulose,

Microcrystalline ; Polacrilin Potassium

Regulatory Status: Schedule IV

Availability: United States

Product ID 5150787

Contact: Mylan Pharmaceuticals

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DRUG POWDER ANALYSIS FORM

SAMPLE# AGENCY	BOSTON ANALYST AST
No. of samples tested:	Evidence Wt.
PHYSICAL DESCRIPTION:	Gross Wt():
19 orange horason	(al waster Gross Wt ():
t mover to	
(6/0	Net Wt: <u> </u>
atso pc	
(mg)	· ·
PRELIMINARY TESTS Spot Tests	Microcrystalline Tests
Cobalt Thiocyanate ()	Gold Chloride
Marquis	TLTA ()
Froehde's	OTHER TESTS
Mecke's	Mutomarc A 10
PRELIMINARY TEST RESULTS	GC/MS CONFIRMATORY TEST
RESULTS Queen or ohno	RESULTS Bupresurphus
DATE	MS OPERATOR DJR
	DATE 5-20-11

Drug Information

DRUG NAME: SUBOXONE TABLET

INGREDIENTS: BUPRENORPHINE - 8 MG

NALOXONE - 2 MG

Color: orange
Shape: Six-sided

Imprint: N8 Sword Logo
Form: Sublingual Tablet

Available-Container-Size: Bottle of 30

AAPCC Code: 200625 -

Buprenorphine

NDC: 12496-1306-02

Regulatory Status: Schedule III

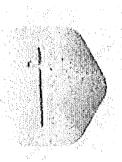
Availability: United States

Product ID 6370996

Contact: Reckitt Benckiser

Pharmaceuticals





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DRUG POWDER ANALYSIS FORM

SAMPLE#	AGENCY BOSTON ANALYST PON
No. of samples tested:	Evidence Wt.
PHYSICAL DESCRIPTION:	Gross Wt():
5 green rend	Gross Wt ():
~	Pkg. Wt:
(m)	Net Wt: 0.8587
PRELIMINARY TESTS Spot Tests	Microcrystalline Tests
Cobalt Thiocyanate ()	Gold Chloride
Marquis	TLTA ()
Froehde's	OTHER TESTS
Mecke's	Musadier AID
PRELIMINARY TEST RESULTS	GC/MS CONFIRMATORY TEST
RESULTS donare om	RESULTS Change
DATE 3-14-11	MS OPERATOR
	DATE 5-23-4

Drug Information

DRUG NAME: CLONAZEPAM

INGREDIENTS: CLONAZEPAM -- 1 MG

Color: Light Green

Shape: Circle

Imprint: M The tablet is debossed with M on one side and C above the score and 14 below the score on the other

side., C 14

Form: Oral Tablet

Available-Container-Size: Strip of 100, Bottle of 100, Strip of 300, Bottle

of 1000, Strip of 1, Bottle of 90

AAPCC Code: 007000 -

Benzodiazepines

NDC: 0378-1912-77

51079-882-20

51079-882-21

0378-1912-01

51079-882-56

0378-1912-10

51079-882-01

51079-882-30

Excipients: Lactose

(Anhydrous); Silicon Dioxide,

Colloidal; Magnesium

Stearate; Cellulose,

Microcrystalline; Starch,

Pregelatinized; Sodium Lauryl

Sulfate; D&C Yellow No. 10; FD&C

Blue No. 1 Lake

Regulatory Status: Schedule IV

Availability: United States

Product ID 5726398

Contact: Mylan Pharmaceuticals

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DRUG POWDER ANALYSIS FORM

SAMPLE#	AGENCY_	Bosten	ANALYST_	0 <i>C</i> #
No. of samples tested:	-		Evidence Wt.	
PHYSICAL DESCRIPTION:			Gross Wt():_	·
6 green ren	er 40,54		Gross Wt():_	
	(, 62		Pkg. Wt:_	
TEVA	833		Net Wt: _	1.0155
PRELIMINARY TESTS Spot Tests			Microcrystalline Test	<u>s</u>
Cobalt Thiocyanate ()	•	С	Gold hloride	
Marquis			TLTA ()	<u> </u>
Froehde's			OTHER TESTS	•
Mecke's		<u>m</u>	hondic AIC	P)
PRELIMINARY TEST RESULTS		GC	MS CONFIRMATORY	TEST
RESULTS Closaregum		RES	BULTS Clonaux	<u>~</u>
DATE		OPERA	MS ATOR <u>03</u> 2	
			DATE & 22 LL	

Drug Information

DRUG NAME: CLONAZEPAM

INGREDIENTS: CLONAZEPAM - 1 MG

Color: Green Shape: Circle

Imprint: 833 This tablet is debossed with 833 above the scored line and TEVA on the unscored side, TEVA

Form: Oral Tablet

Available-Container-Size: Bottle of 100, Bottle of 1000, Bottle of 500

AAPCC Code: 007000 - Benzodiazepines

NDC: 00093-0833-93 00093-0833-10 00093-0833-05 00093-0833-01

Excipients: Lactose (Monohydrate); Magnesium Stearate; Cellulose,

Microcrystalline; Povidone; Water, Purified; Starch, Corn; D&C Yellow No. 10 Aluminum Lake; FD&C Blue No. 1

Aluminum Lake

Regulatory Status: Schedule IV

Availability: United States

Product ID 7150694

Contact: Teva Pharmaceuticals

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DRUG POWDER ANALYSIS FORM

SAMPLE# AGENCY_	BOSTED ANALYST ASO
No. of samples tested:	Evidence Wt.
PHYSICAL DESCRIPTION:	Gross Wt():
27 yellow rend to	سمري
37 yellow rend to	Pkg. Wt:
	Net Wt: 6.0330
121	
PRELIMINARY TESTS	
Spot Tests	Microcrystalline Tests
Cobalt Thiocyanate ()	Gold Chloride
Marquis	TLTA ()
Froehde's	OTHER TESTS
Mecke's	Myonde A @
PRELIMINARY TEST RESULTS	GC/MS CONFIRMATORY TEST
RESULTS ASQUE (OTC)	RESULTS .
DATE 5-14-11	MS OPERATOR
	DATE

Drug Information

DRUG NAME: ASPIRIN - LOW DOSE **INGREDIENTS:** ASPIRIN -- 81 MG

Color: Yellow Shape: Circle

Imprint: AP The imprint is a lowercase

p inside an inverted V., 121

Form: Oral Tablet, Enteric Coated

Available-Container-Size: Bottle of

1000, Bottle of 120

AAPCC Code: 041701 - Acetylsalicylic

Acid Alone, Adult Formulations

NDC: 0603-0025-32 0603-0026-32 0603-0026-22

UPC: 06030-02632 06030-02622

Excipients:

Hypromellose; Hypromellose

Phthalate; Iron Oxide (Ochre); Cellulose,

Microcrystalline; Mineral Oil; PEG-400; Polysorbate 80; Titanium

Dioxide; Acetylated Monoglyceride; Lactose (Anhydrous); Silicon Dioxide, Colloidal; Croscarmellose Sodium; D&C Yellow No. 10

Regulatory Status: OTC
Availability: United States

Product ID 6049210

Contact: Qualitest Pharmaceuticals

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Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\05 20 11\788981.D

Operator : DJR

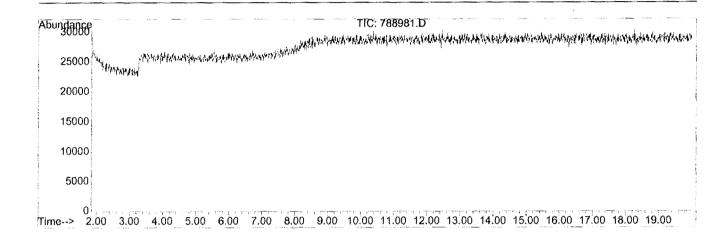
Date Acquired : 21 May 2011 7:29

Sample Name : BLANK

Submitted by

Vial Number : 2
AcquisitionMeth: GENSCN
Integrator : RTE

1-24-12



Ret. Time Area Area

Area % Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

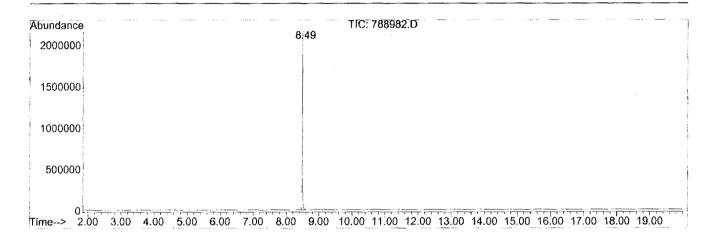
File Name : D:\SYSTEM4\05_20_11\788982.D Operator : DJR

Date Acquired : 21 May 2011 7:53

Sample Name : LORAZEPAM STD

Submitted by

Vial Number : 82 AcquisitionMeth: GENSCN Integrator : RTE



Ret. Time	Area	Area %	Ratio %
8.490	2375800	100.00	100.00

File Name : D:\SYSTEM4\05 20 11\788982.D

Operator : DJR

Date Acquired : 21 May 2011 7:53

Sample Name : LORAZEPAM STD

Submitted by

Vial Number : 82 AcquisitionMeth: GENSCN Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

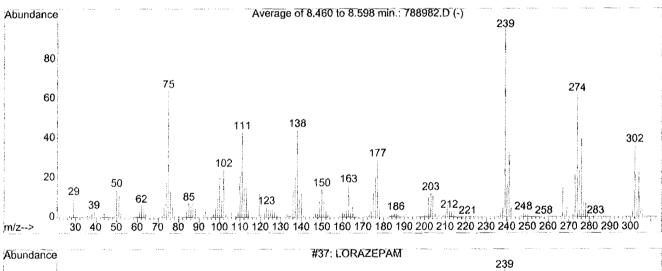
C:\DATABASE\SLI.L Minimum Quality: 90
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90

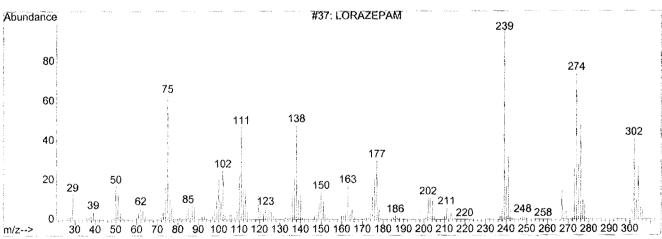
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

1 8.49 C:\DATABASE\SLI.L LORAZEPAM

000846-49-1 95





788982.D

Tue Jan 24 14:05:38 2012

Area Percent / Library Search Report

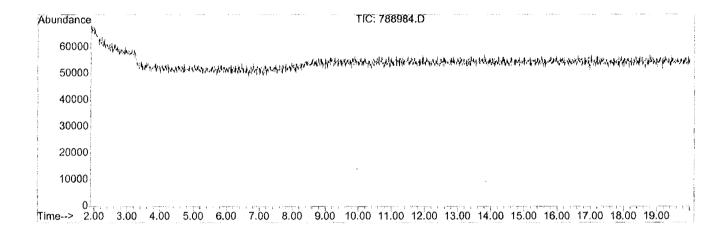
Information from Data File:

File Name : D:\SYSTEM4\05 20 11\788984.D

Operator : DJR

Date Acquired : 21 May 2011 8:41

Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: WGENSCN
Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

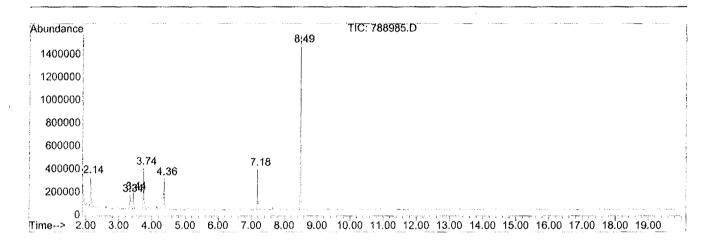
File Name : D:\SYSTEM4\05_20_11\788985.D

Operator : DJR

Date Acquired : 21 May 2011 9:05

Sample Name :

Submitted by : ASD
Vial Number : 85
AcquisitionMeth: WGENSCN
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
2.138	591084	15.00	35.56	
3.340	291916	7.41	17.56	
3.436	192529	4.89	11.58	
3.741	481998	12.23	29.00	
4.363	306468	7.78	18.44	
7.181	415117	10.53	24.98	
8.491	1662070	42.17	100.00	

File Name : D:\SYSTEM4\05 20 11\788985.D

Operator : DJR

Date Acquired : 21 May 2011 9:05

Sample Name :

Submitted by : ASD
Vial Number : 85
AcquisitionMeth: WGENSCN
Integrator : RTE

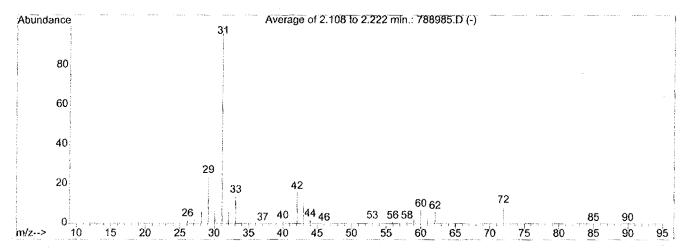
Search Libraries: C:\DATABASE\SLI.L

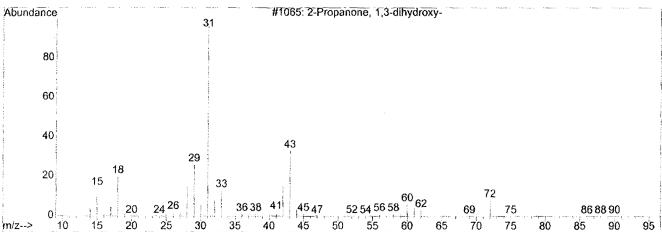
Minimum Quality: 90
Minimum Quality: 90

C:\DATABASE\PMW_TOX2.L

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	2.14	C:\DATABASE\NIST98.L 2-Propanone, 1,3-dihydroxy- Acetaldehyde, hydroxy- 1-Propanol	000096-26-4 000141-46-8 000071-23-8	78 9 9





788985.D

Tue Jan 24 14:05:49 2012

File Name : D:\SYSTEM4\05 20 11\788985.D

Operator : DJR

Date Acquired : 21 May 2011 9:05

Sample Name :

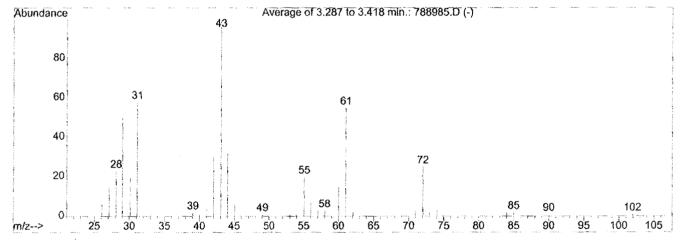
Submitted by : ASD
Vial Number : 85
AcquisitionMeth: WGENSCN
Integrator : RTE

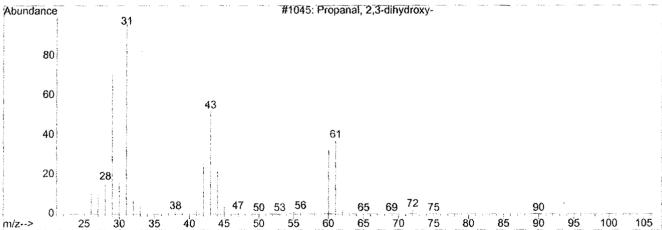
Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

C:\DATABASE\PMW_TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
2	3.34	C:\DATABASE\NIST98.L Propanal, 2,3-dihydroxy- Glycerin 3(2H)-Furanone, dihydro-2-methyl-	000367-47-5 000056-81-5 003188-00-9	47 33 32





788985.D

Tue Jan 24 14:05:50 2012

File Name : D:\SYSTEM4\05 20 11\788985.D

Operator : DJR

Date Acquired : 21 May 2011 9:05

Sample Name :

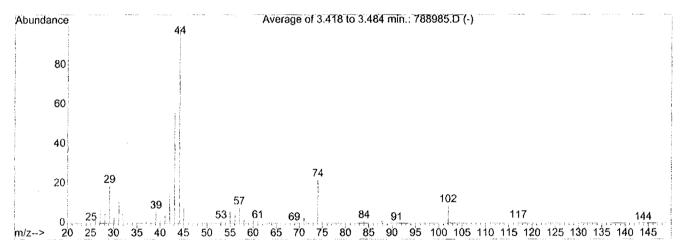
Submitted by : ASD
Vial Number : 85
AcquisitionMeth: WGENSCN
Integrator : RTE

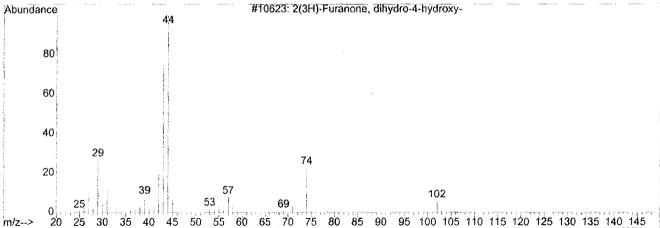
Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
3	3.44	C:\DATABASE\NIST98.L		
		2(3H)-Furanone, dihydro-4-hydroxy-	005469-16-9	90
		1-Propanol, 2-amino-, (S)-	002749-11-3	40
		1-Propanol, 2-amino-	000078-91-1	36





788985.D

Tue Jan 24 14:05:50 2012

File Name : D:\SYSTEM4\05_20_11\788985.D

Operator : DJR

Date Acquired : 21 May 2011 9:05

Sample Name :

Submitted by : ASD
Vial Number : 85
AcquisitionMeth: WGENSCN
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

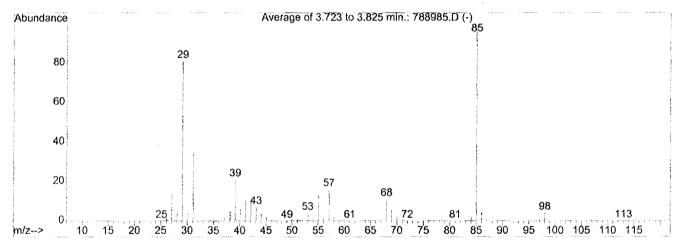
Minimum Quality: 90

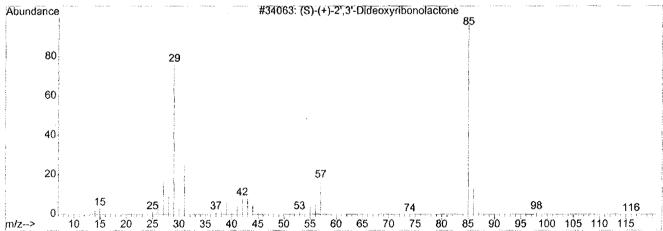
C:\DATABASE\PMW TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
 4	3.74	C:\DATABASE\NIST98.L		
		(S)-(+)-2',3'-Dideoxyribonolactone	032780-06-6	40
		5-Oxotetrahydrofuran-2-carboxylic a	004344-84-7	39
		Thiazole	000288-47-1	39





788985.D

Tue Jan 24 14:05:51 2012

: D:\SYSTEM4\05 20 11\788985.D File Name

Operator : DJR

Date Acquired : 21 May 2011 9:05

Sample Name

Submitted by ASD Vial Number 85 AcquisitionMeth: WGENSCN : RTE Integrator

Search Libraries:

RT

PK#

C:\DATABASE\SLI.L

Minimum Quality: 90 Minimum Quality: 90

C:\DATABASE\PMW TOX2.L C:\DATABASE\NIST98.L

5 4.36 C:\DATABASE\NIST98.L Hexyl isovalerate

Library/ID

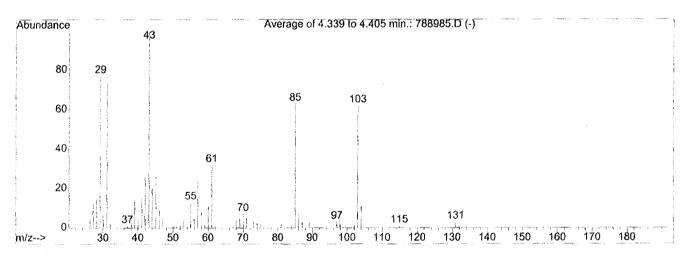
40 010632-13-0

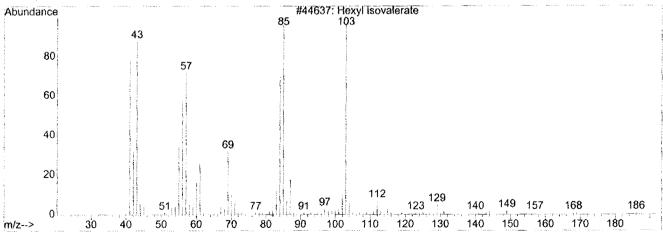
CAS#

000087-33-2 38

Qual

Isosorbide Dinitrate Ethylene glycol diglycidyl ether 002224-15-9 32





788985.D

Tue Jan 24 14:05:51 2012

6 Page

File Name : D:\SYSTEM4\05 20 11\788985.D

Operator : DJR

Date Acquired : 21 May 2011 9:05

Sample Name :

Submitted by : ASD
Vial Number : 85
AcquisitionMeth: WGENSCN
Integrator : RTE

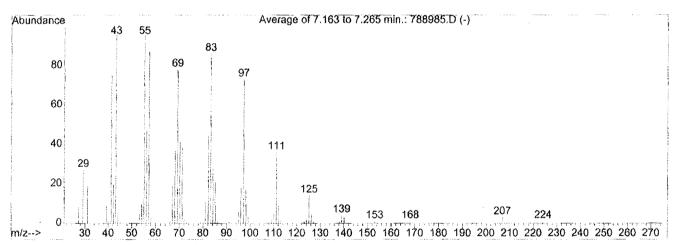
Search Libraries: C:\DATABASE\SLI.L

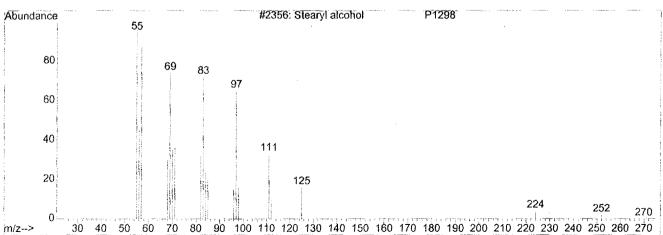
Minimum Quality: 90 K2.L Minimum Quality: 90

C:\DATABASE\PMW_TOX2.L

C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual 6 7.18 C:\DATABASE\PMW TOX2.L Stearyl alcohol 000112-92-5 91 Cyclohexadecane 000295-65-8 90 Cyclotetradecane 000295-17-0 64





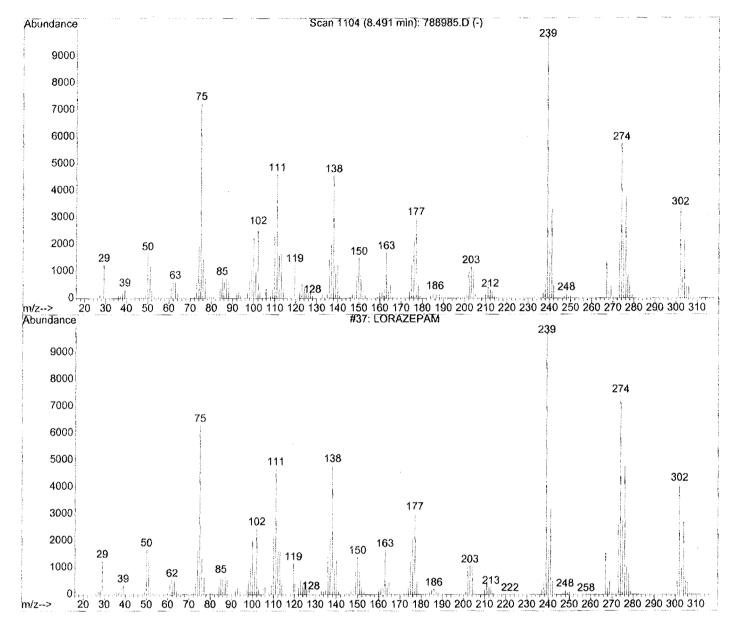
788985.D

Tue Jan 24 14:05:52 2012

Library Searched : C:\DATABASE\SLI.L

Quality : 95

ID : LORAZEPAM



File Name : D:\SYSTEM4\05 20 11\788985.D

Operator : DJR

Date Acquired : 21 May 2011 9:05

Sample Name

Submitted by : ASD
Vial Number : 85
AcquisitionMeth: WGENSCN
Integrator : RTE

Search Libraries:

7

C:\DATABASE\SLI.L

Minimum Quality: 90

C:\DATABASE\PMW_TOX2.L C:\DATABASE\NIST98.L

,

Minimum Quality: 90

PK# RT Library/ID

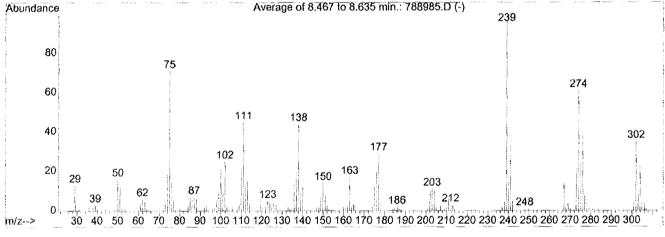
CAS#

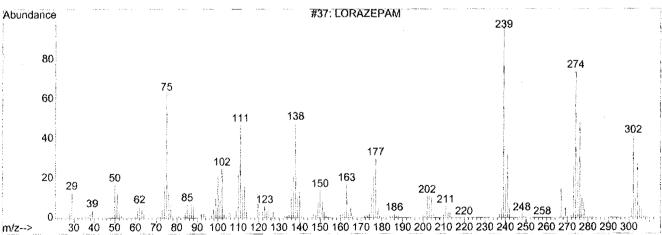
Qual

8.49 C:\DATABASE\SLI.L LORAZEPAM

000846-49-1

95





788985.D

Tue Jan 24 14:05:52 2012

File Name : D:\SYSTEM4\05 20 11\788987.D

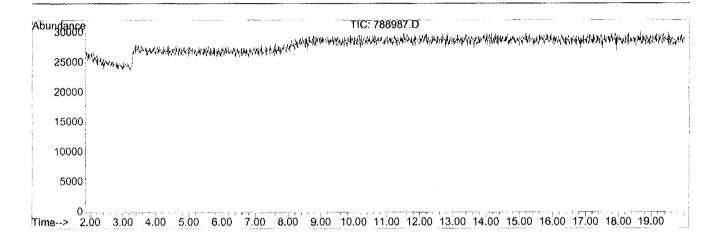
Operator : DJR

Date Acquired : 21 May 2011 9:52

Sample Name : BLANK

Submitted by

Vial Number : 2 AcquisitionMeth: GENSCN Integrator : RTE



Ret. Time Area Area % Ratio %

^{***}NO INTEGRATED PEAKS***

Area Percent / Library Search Report

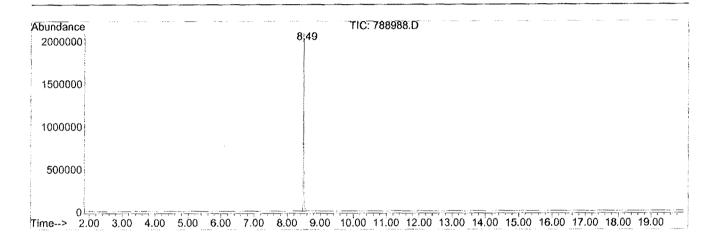
Information from Data File:

File Name : D:\SYSTEM4\05_20_11\788988.D
Operator : DJR
Date Acquired : 21 May 2011 10:16

Sample Name : LORAZEPAM STD

Submitted by

Vial Number 82 AcquisitionMeth: GENSCN : RTE Integrator



Ret. Time	Area	Area %	Ratio %
8.490	2185515	100.00	100.00

File Name : D:\SYSTEM4\05 20 11\788988.D

Operator : DJR

Date Acquired : 21 May 2011 10:16

Sample Name : LORAZEPAM STD

Submitted by

Vial Number : 82 AcquisitionMeth: GENSCN Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

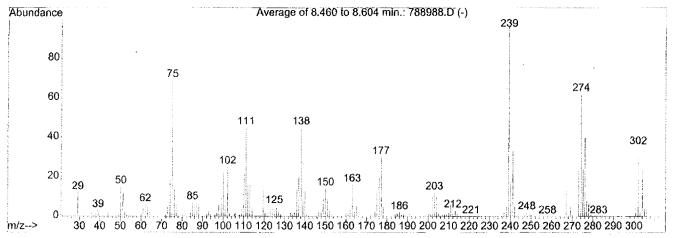
Minimum Quality: 90
Minimum Quality: 90

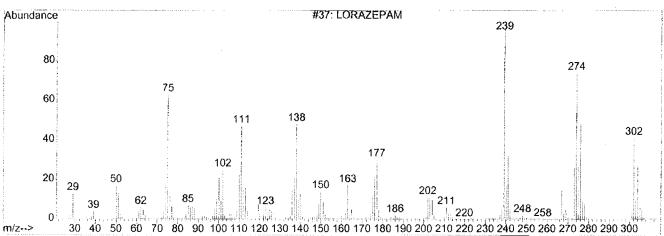
C:\DATABASE\PMW_TOX2.L
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

1 8.49 C:\DATABASE\SLI.L LORAZEPAM

000846-49-1 95





788988.D

Tue Jan 24 14:06:03 2012

Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\05 18 11\788716.D

Operator : DJR

Date Acquired : 18 May 2011 17:07

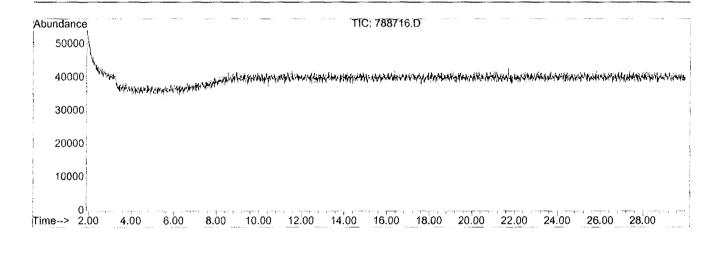
Sample Name : BLANK

Submitted by

Vial Number : 1

AcquisitionMeth: WSCREEN

Integrator : RTE



Ret. Time Ratio % Area Area

NO INTEGRATED PEAKS

788716.D

Tue Jan 24 14:01:30 2012

Area Percent / Library Search Report

Information from Data File:

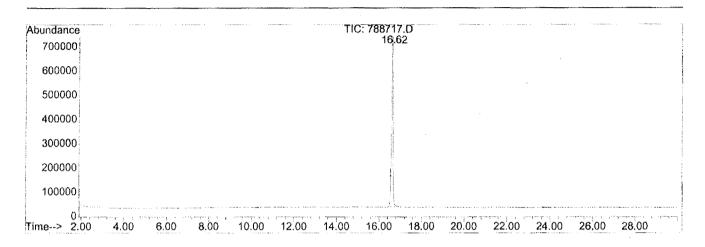
File Name : D:\SYSTEM4\05 18 11\788717.D

Operator : DJR

Date Acquired : 18 May 2011 17:41 Sample Name : BUPRENORPHINE STD

Submitted by

Vial Number : 17 AcquisitionMeth: WSCREEN Integrator : RTE



Ret. Time	Area	Area %	Ratio %
16.617	3350042	100.00	100.00

File Name : D:\SYSTEM4\05_18 11\788717.D

Operator : DJR

Date Acquired : 18 May 2011 17:41 Sample Name : BUPRENORPHINE STD

Submitted by :

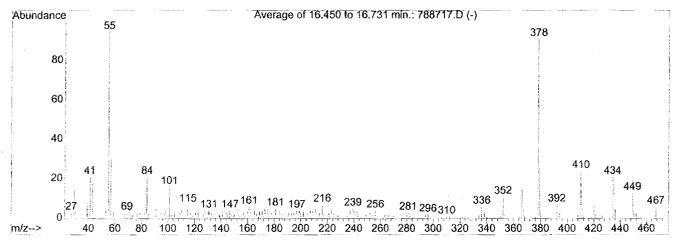
Vial Number : 17 AcquisitionMeth: WSCREEN Integrator : RTE

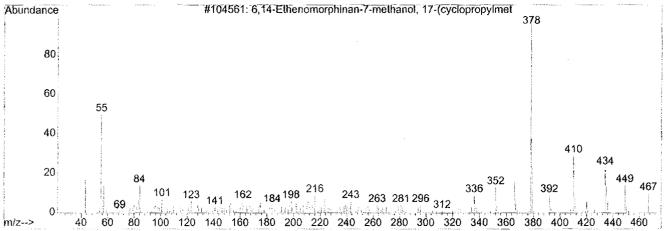
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID		CAS#	Qual
1	16.62	C:\DATABASE\NIST98.L			
		6,14-Ethenomorphinan-7-methanol,			89
		6,14-Ethenomorphinan-7-methanol,	17	052485-79-7	80
		Dibenzo[a,c]pentacene		000216-08-0	43





788717.D

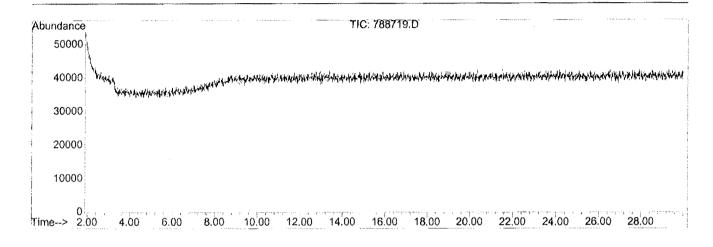
Tue Jan 24 14:01:34 2012

File Name : D:\SYSTEM4\05_18_11\788719.D

Operator : DJR

Date Acquired : 18 May 2011 18:49

Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: WSCREEN
Integrator : RTE



Ret. Time Area Area % Ratio %

^{***}NO INTEGRATED PEAKS***

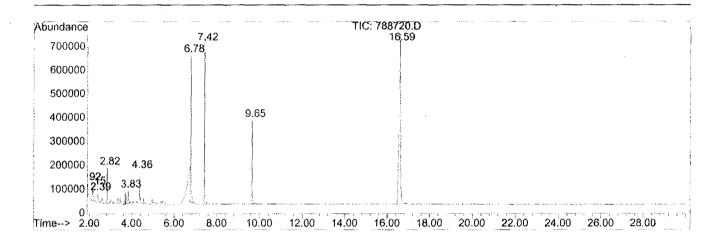
File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : <u>18 May 2011 19:23</u>

Sample Name :

Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
1 010	100010	1 00	2.70	
1.918	133612	1.99	3.79	
2.151	146736	2.18	4.16	
2.390	105560	1.57	3.00	
2.821	200522	2.98	5.69	
3.826	102472	1.52	2.91	
4.358	149968	2.23	4.26	
6.775	981881	14.60	27.86	
7.415	802409	11.93	22.77	
9.653	576910	8.58	16.37	
16.592	3524287	52.41	100.00	

File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name

Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN

Integrator : RTE

Search Libraries:

C:\DATABASE\SLI

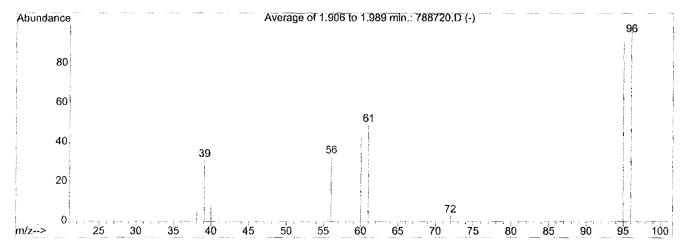
Minimum Quality: 90

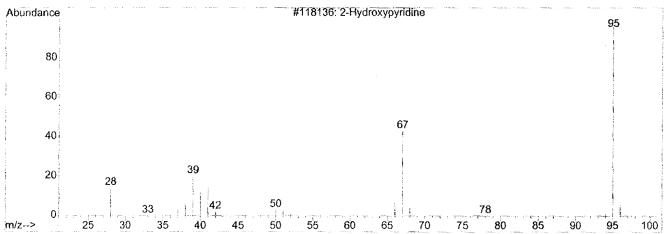
C:\DATABASE\PMW_TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1.	1.92	C:\DATABASE\NIST98.L 2-Hydroxypyridine 2-Hydroxypyridine 2-Hydroxypyridine	000142-08-5 000142-08-5 000142-08-5	5 4 4





788720.D

Tue Jan 24 14:01:43 2012

File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name :

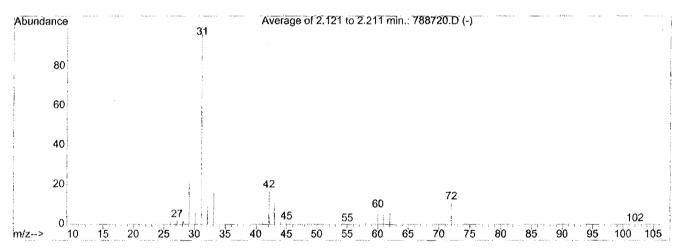
Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

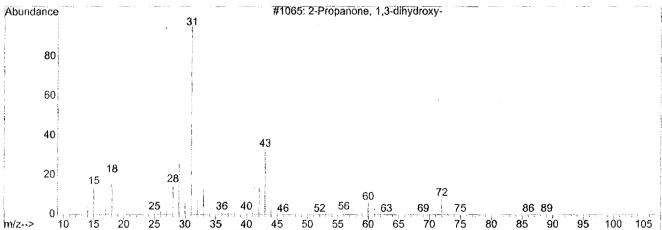
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
2	2.15	C:\DATABASE\NIST98.L 2-Propanone, 1,3-dihydroxy- Acetaldehyde, hydroxy- 1-Propanol	000096-26-4 000141-46-8 000071-23-8	83 42 9





788720.D

Tue Jan 24 14:01:44 2012

File Name : D:\SYSTEM4\05_18_11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name :

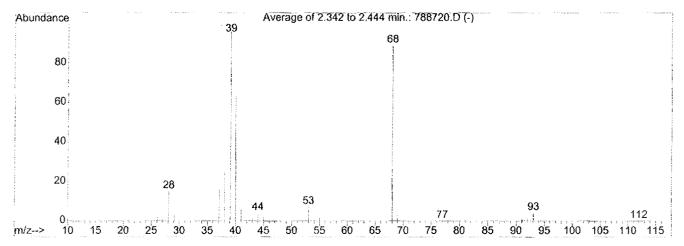
Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

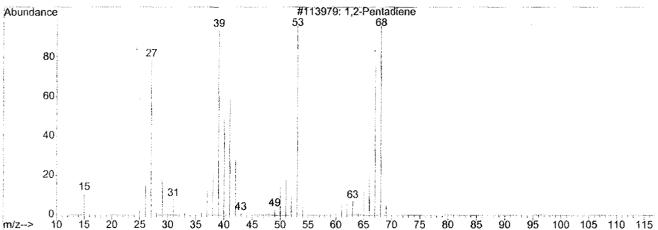
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW_TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
. 3	2.39	C:\DATABASE\NIST98.L 1,2-Pentadiene 2H-Pyran-2-one 2H-Pyran-2-one	000591-95-7 000504-31-4 000504-31-4	83 83 83





788720.D

Tue Jan 24 14:01:45 2012

File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name :

Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

Search Libraries: C:\D

C:\DATABASE\SLI

Minimum Quality: 90
Minimum Quality: 90

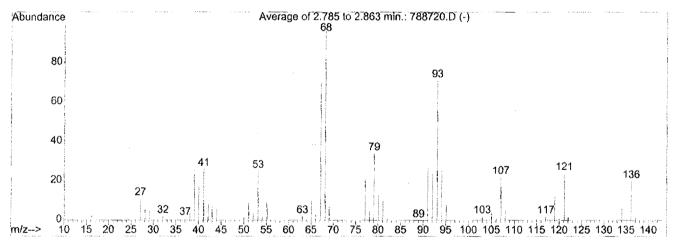
C:\DATABASE\PMW_TOX2.L
C:\DATABASE\NIST98.L

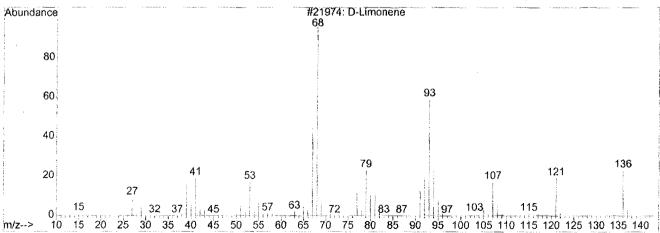
PK# RT Library/ID CAS# Qual
4 2.82 C:\DATABASE\NIST98.L

 D-Limonene
 005989-27-5
 95

 Limonene
 000138-86-3
 94

 D-Limonene
 005989-27-5
 93





788720.D

Tue Jan 24 14:01:45 2012

File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name

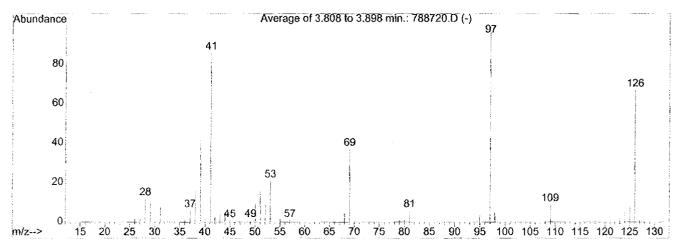
Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

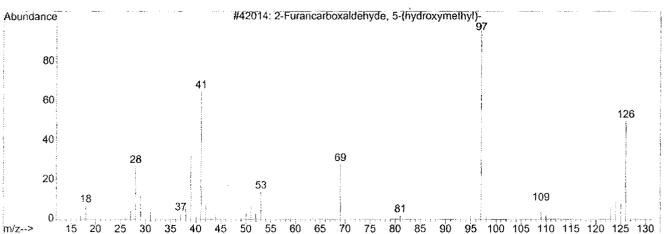
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID		CAS#	Qual
5	3.83	C:\DATABASE\NIST98.L 2-Furancarboxaldehyde, 2-Furancarboxaldehyde, 2-Furancarboxaldehyde,	5-(hydroxyme	000067-47-0	58 42 42





788720.D

Tue Jan 24 14:01:46 2012

File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name :

Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

Search Libraries:

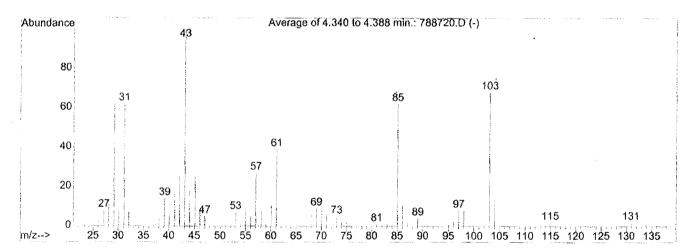
C:\DATABASE\SLI

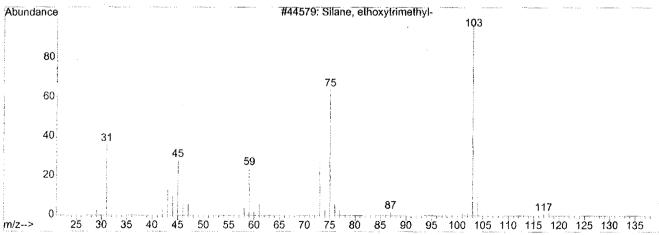
Minimum Quality: 90
Minimum Quality: 90

C:\DATABASE\PMW_TOX2.L

C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual б 4.36 C:\DATABASE\NIST98.L Silane, ethoxytrimethyl-001825-62-3 38 Isosorbide Dinitrate 000087-33-2 32 Hexyl isovalerate 010632-13-0 28





788720.D

Tue Jan 24 14:01:47 2012

File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name :

Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

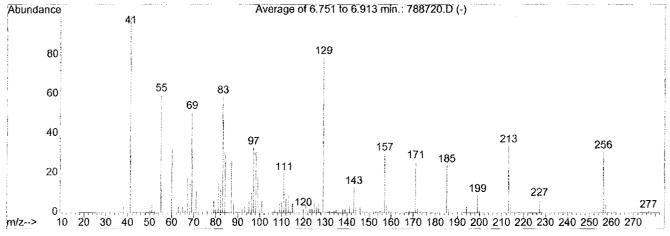
C:\DATABASE\PMW TOX2.L Minimum Quality: 90

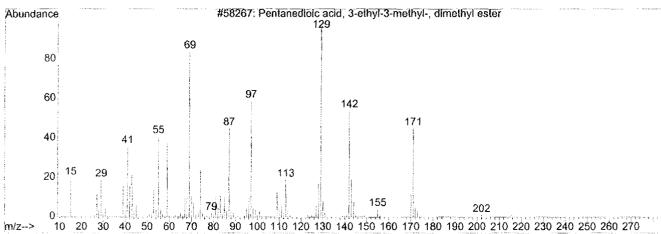
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

7 6.78 C:\DATABASE\NIST98.L

Pentanedioic acid, 3-ethyl-3-methyl 007445-19-4 23 Pentanedioic acid, 3-methyl-, dibut 056051-60-6 23 7,7,9,9-Tetrakis-hydroxymethyl-1,4- 1000193-69-8 16





788720.D

Tue Jan 24 14:01:48 2012

File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name :

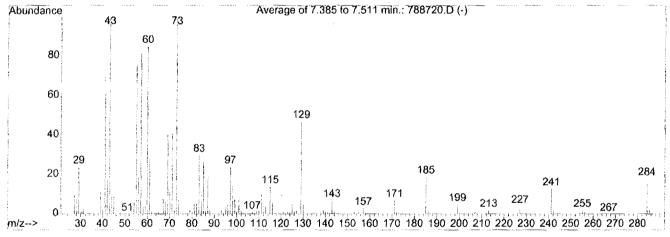
Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

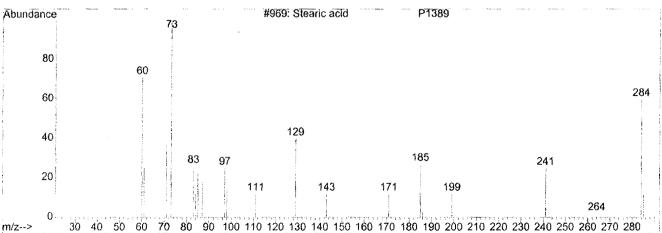
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
8	7.42	C:\DATABASE\PMW_TOX2.L Stearic acid Myristic acid Tridecane	000057-11-4 000544-63-8 000629-50-5	94 83 10





788720.D

Tue Jan 24 14:01:48 2012

File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name

Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

Search Libraries:

C:\DATABASE\SLI

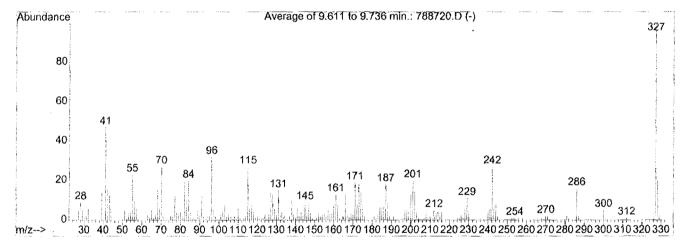
Minimum Quality: 90

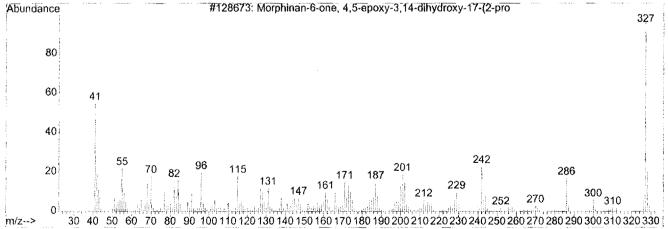
C:\DATABASE\PMW_TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID		CAS#	Qual
9	9.65	C:\DATABASE\NIST9	8.L		
		Morphinan-6-one,	4,5-epoxy-3,14-dih	000465-65-6	99
		Morphinan-6-one,	4,5-epoxy-3,14-dih	000465-65-6	83
		Morphinan-6-one,	4,5-epoxy-3,14-dih	000465-65-6	62





788720.D

Tue Jan 24 14:01:49 2012

File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name :

Submitted by : ASD Vial Number : 20 AcquisitionMeth: WSCREEN

Integrator : RTE

Search Libraries: C:\DATABASE\SLI

Minimum Quality: 90
Minimum Quality: 90

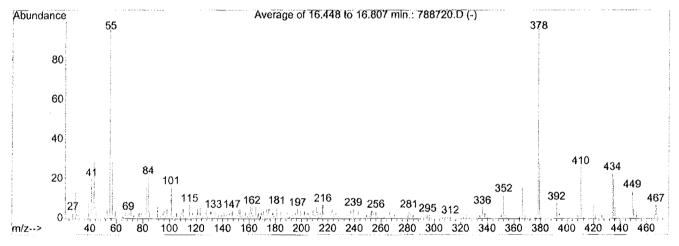
C:\DATABASE\PMW_TOX2.L

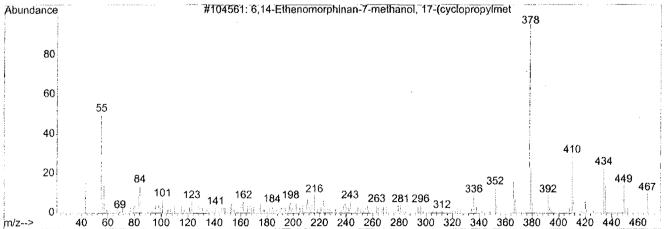
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

10 16.59 C:\DATABASE\NIST98.L
6,14-Ethenomorphinan-7-methanol, 17 052485-79-7 96

6,14-Ethenomorphinan-7-methanol, 17 052485-79-7 96 6,14-Ethenomorphinan-7-methanol, 17 052485-79-7 96 10-Methoxycamptothecin 019685-10-0 43





788720.D

Tue Jan 24 14:01:49 2012

Information from Data File:

File Name : D:\SYSTEM4\05 18 11\788728.D

Operator

: DJR

Date Acquired : 18 May 2011 23:54

Sample Name

: BLANK

Submitted by

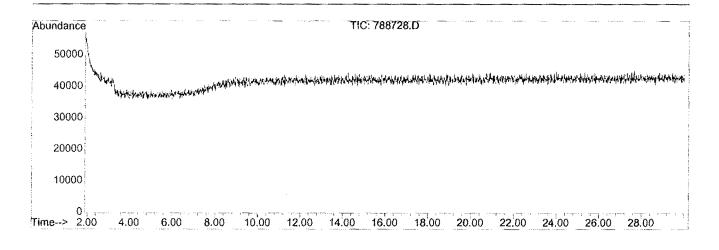
Vial Number

1

AcquisitionMeth: WSCREEN

Integrator

: RTE



Ret. Time

Area

Area

Ratio %

NO INTEGRATED PEAKS

788728.D

Tue Jan 24 14:01:57 2012

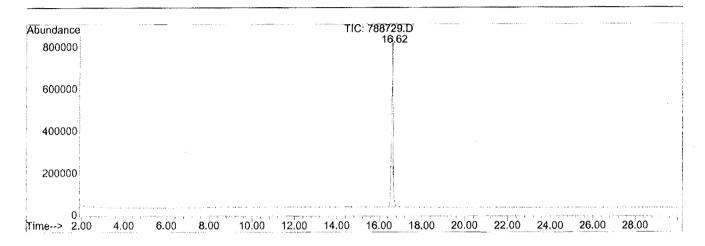
File Name : D:\SYSTEM4\05_18_11\788729.D

Operator : DJR

Date Acquired : 19 May 2011 00:28 Sample Name : BUPRENORPHINE STD

Submitted by

Vial Number : 17 AcquisitionMeth: WSCREEN Integrator : RTE



Ret. Time	Area	Area %	Ratio %
16.621	3937557	100.00	100.00

File Name

: D:\SYSTEM4\05 18 11\788729.D

Operator

: DJR

Date Acquired : 19 May 2011 00:28 Sample Name

BUPRENORPHINE STD

Submitted by

Vial Number 17

AcquisitionMeth: WSCREEN

Integrator

: RTE

Search Libraries:

C:\DATABASE\SLI

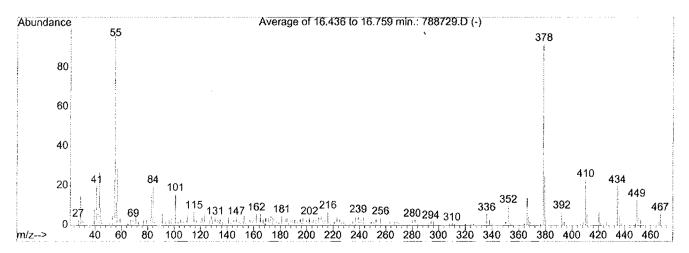
Minimum Quality: 90

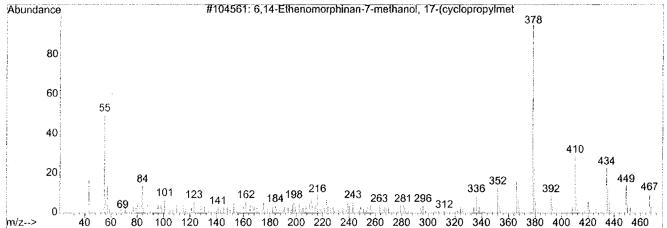
C:\DATABASE\PMW TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID		CAS#	Qual
1	16.62	C:\DATABASE\NIST98.L			
		6,14-Ethenomorphinan-7-methanol,	17	052485-79-7	96
		6,14-Ethenomorphinan-7-methanol,	17	052485-79-7	43
		1 2 8 9-Dibenzpentacene		000227-09-8	43





788729.D

Tue Jan 24 14:02:00 2012

File Name : D:\SYSTEM4\05_20_11\788932.D

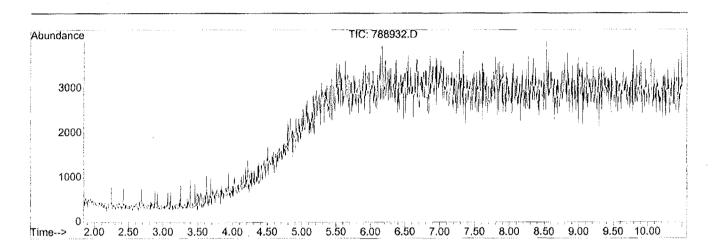
Operator : DJR

Date Acquired : 20 May 2011 17:09

Sample Name : BLANK

Submitted by

Vial Number : 1 AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

Information from Data File:

File Name : D:\SYSTEM4\05 20 11\788933.D

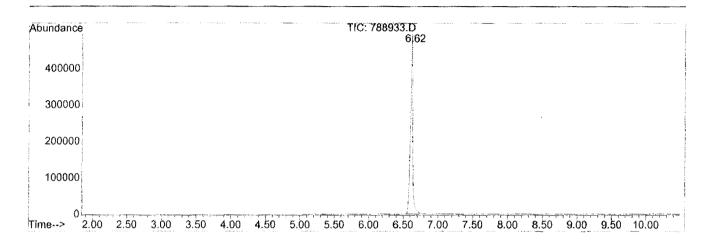
Operator : DJR

Date Acquired : 20 May 2011 17:23

Sample Name : CLONAZEPAM STD

Submitted by

Vial Number : 24 AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
6.620	1158680	100.00	100.00	

File Name : D:\SYSTEM4\05 20 11\788933.D

Operator : DJR

Date Acquired : 20 May 2011 17:23 Sample Name : CLONAZEPAM STD

Submitted by

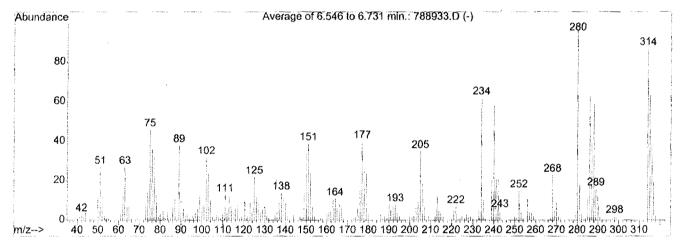
Vial Number : 24 AcquisitionMeth: CLONAZ Integrator : RTE

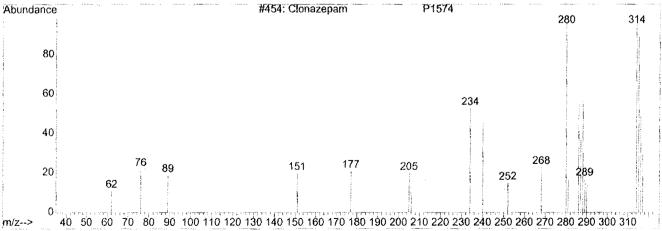
Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 95

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
7	6.62	C:\DATABASE\PMW_TOX2.L Clonazepam Clorazepate-M/artifact AC Estradiol 2AC	001622-61-3 000000-00-0 003434-88-6	98 2 1





788933.D

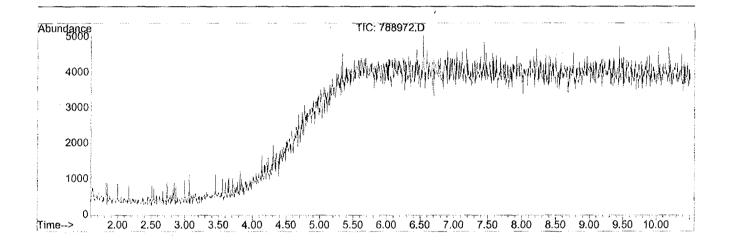
Tue Jan 24 14:04:35 2012

File Name : D:\SYSTEM4\05 20 11\788972.D

Operator : DJR

Date Acquired : 21 May 2011 5:13

Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: WCLONAZ
Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

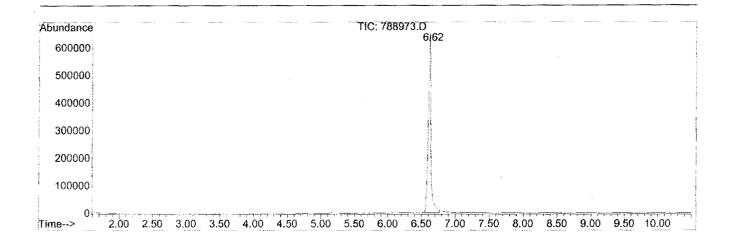
Information from Data File:

File Name : D:\SYSTEM4\05_20_11\788973.D Operator : DJR

Date Acquired : 21 May 2011 5:27

Sample Name :

Submitted by : ASD Vial Number : 73 AcquisitionMeth: WCLONAZ Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.620	1781796	100.00	100.00

File Name : D:\SYSTEM4\05_20_11\788973.D

Operator : DJR

Date Acquired : 21 May 2011 5:27

Sample Name

Submitted by : ASD
Vial Number : 73
AcquisitionMeth: WCLONAZ
Integrator : RTE

Search Libraries:

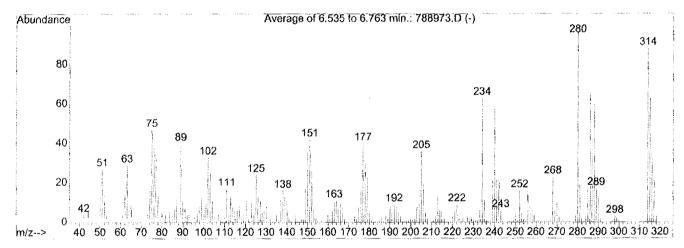
C:\DATABASE\SLI.L

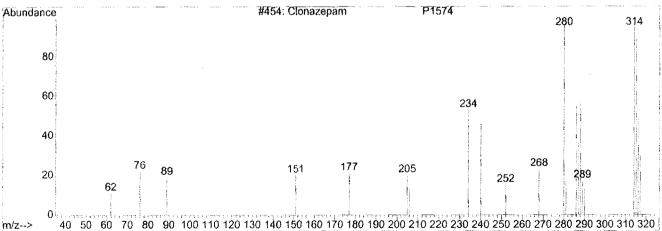
Minimum Quality: 95 Minimum Quality: 90

C:\DATABASE\PMW_TOX2.L

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	6.62	C:\DATABASE\PMW_TOX2.L Clonazepam Clorazepate-M/artifact AC Estradiol 2AC	001622-61-3 000000-00-0 003434-88-6	98 9 1





788973.D

Tue Jan 24 14:04:56 2012

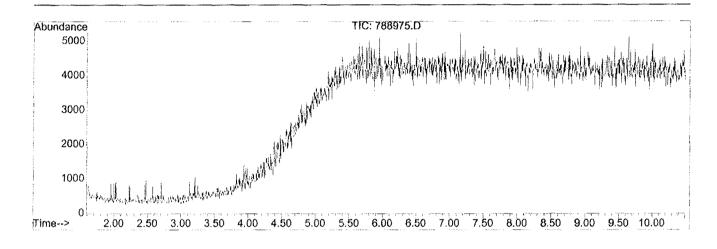
Information from Data File:

File Name : D:\SYSTEM4\05_20_11\788975.D

Operator : DJR

Date Acquired : 21 May 2011 5:55

Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: WCLONAZ
Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

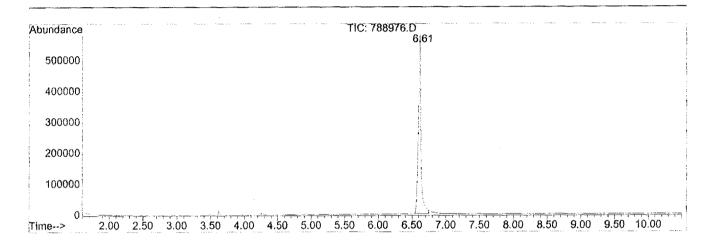
File Name : D:\SYSTEM4\05_20_11\788976.D

Operator : DJR

Date Acquired : 21 May 2011 6:09

Sample Name

Submitted by : ASD
Vial Number : 76
AcquisitionMeth: WCLONAZ
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.613	1536162	100.00	100.00

: D:\SYSTEM4\05 20 11\788976.D File Name

Operator : DJR

6:09 Date Acquired 21 May 2011

Sample Name

Submitted by ASD Vial Number 76 AcquisitionMeth: WCLONAZ

Integrator RTE

RT

PK#

1

C:\DATABASE\SLI.L Search Libraries:

C:\DATABASE\PMW TOX2.L

C:\DATABASE\NIST98.L

Minimum Quality: 95

Minimum Quality: 90

Library/ID CAS# Oua1

6.61 C:\DATABASE\PMW TOX2.L

> Clonazepam Clorazepate-M/artifact AC

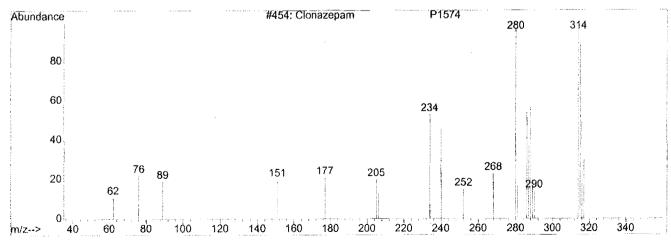
001622-61-3 000000-00-0 003434-88-6

9 1

98

Estradiol 2AC

Average of 6.534 to 6.745 min.: 788976.D (-) Abundance 280 314 80 234 60 75 151 177 205 89 40 102 51 63 268 125 20 252 138 113 290 164 222 193 41 300 355 0 200 220 240 260 280 300 320 340 40 60 80 120 m/z--> 100 160



788976.D

Tue Jan 24 14:05:08 2012

Information from Data File:

File Name : D:\SYSTEM4\05_20_11\788978.D

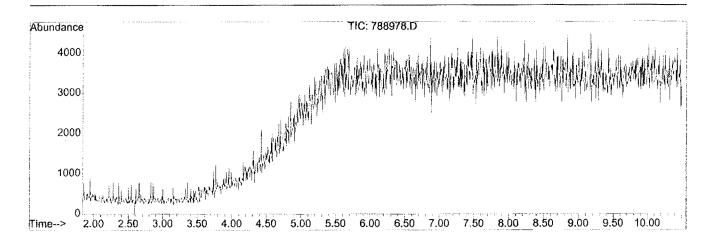
Operator : DJR

Date Acquired : 21 May 2011 6:36

Sample Name : BLANK

Submitted by

Vial Number : 2 AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

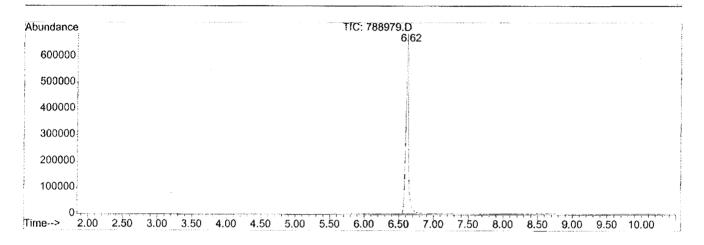
File Name : D:\SYSTEM4\05_20_11\788979.D

Operator : DJR

Date Acquired : 21 May 2011 6:50 Sample Name : CLONAZEPAM STD

Submitted by :

Vial Number : 24 AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.619	1757264	100.00	100.00

File Name : D:\SYSTEM4\05_20_11\788979.D

Estradiol 2AC

Operator : DJR

Date Acquired : 21 May 2011 6:50 Sample Name : CLONAZEPAM STD

Submitted by :

Vial Number : 24 AcquisitionMeth: CLONAZ Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

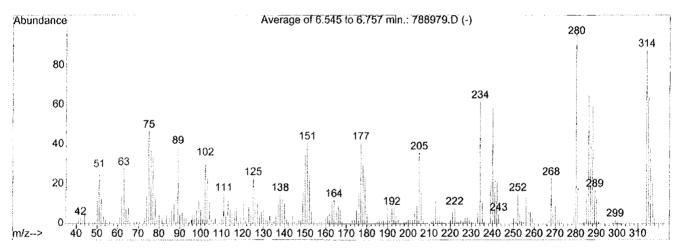
Minimum Quality: 95

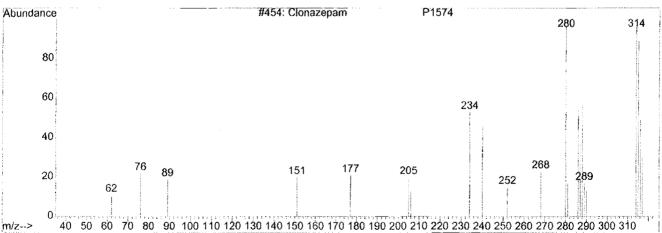
003434-88-6

1

C:\DATABASE\PMW_TOX2.L C:\DATABASE\NIST98.L Minimum Quality: 90

PK#	RT	Library/ID	CAS#	Qual
1	6.62	C:\DATABASE\PMW_TOX2.L		
		Clonazepam	001622-61-3	98
		Clorazepate-M/artifact AC	000000-00-0	9





788979.D

Tue Jan 24 14:05:21 2012